

BOBBY JINDAL
GOVERNOR



HAROLD LEGGETT, Ph.D.
SECRETARY

State of Louisiana

DEPARTMENT OF ENVIRONMENTAL QUALITY ENVIRONMENTAL SERVICES

Certified Mail No.

Activity No.: PER20080007
Agency Interest No. 3732

Mr. Hanson Leonard
General Manager
PCS Nitrogen Fertilizer, LP
P.O. Box 307
Geismar, LA 70734-0307

**RE: Part 70 Operating Permit, PCS Nitrogen Fertilizer LP - Nitrate Group - Geismar Agricultural Nitrogen & Phosphate Plant
PCS Nitrogen Fertilizer LP, Geismar, Ascension Parish, Louisiana**

Dear Mr. Leonard:

This is to inform you that the permit renewal and minor modification for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the ___ of _____, 2014, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and agency interest number cited above should be referenced in future correspondence regarding this facility.

Please be advised that pursuant to provisions of the Environmental Quality Act and the Administrative Procedure Act, the Department may initiate review of a permit during its term. However, before it takes any action to modify, suspend or revoke a permit, the Department shall, in accordance with applicable statutes and regulations, notify the permittee by mail of the facts or operational conduct that warrant the intended action and provide the permittee with the opportunity to demonstrate compliance with all lawful requirements for the retention of the effective permit.

Done this _____ day of _____, 2009.

Permit No.: 2240-V5

Sincerely,

Cheryl Sonnier Nolan
Assistant Secretary
CSN: KCW
c: EPA Region VI

PUBLIC NOTICE
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY (LDEQ)
PCS NITROGEN FERTILIZER, LP - NITRATE GROUP
GEISMAR AGRICULTURAL NITROGEN AND PHOSPHATE PLANT
PROPOSED PART 70 AIR OPERATING PERMIT RENEWAL AND MINOR MODIFICATION

The LDEQ, Office of Environmental Services, is accepting written comments on the renewal and minor modification of the Part 70 Air Operating Permit for PCS Nitrogen Fertilizer, LP, P. O. Box 307, Geismar, LA 70734-0307 for the Nitrate Group of the Geismar Agricultural Nitrogen and Phosphate Plant. **The Nitrate Group of the Geismar Agricultural Nitrogen and Phosphate Plant is located in Ascension Parish. The facility is located at 10886 Highway 75, Geismar, Ascension and Iberville Parishes.**

PCS Nitrogen requested deleting the No. 2 Nitric Acid Train, which includes sources NNA2-1 (EQT0003, Nitric Acid Train No. 2) and NNA2-2 (FUG0002, Nitric Acid Train No. 2 fugitives). The train has been physically removed from the facility property.

The fugitive count for Nitric Acid Train No. 5 will be reconciled to reflect existing installed components.

This modification will also incorporate a previously authorized Authorization to Construct for the conversion of the Uran Storage Tank No. 3, ASL-4 (EQT0118) to the No. 3 Nitric Acid Storage Tank, ASL-17 (EQT0132). With that conversion, a nitric acid fume scrubber was installed to service the tank. In addition to that change, the facility will now demolish the Uran Storage Tank No. 4, ASL-5 (EQT0119) and replace it with a new No. 4 Nitric Acid Storage Tank, ASL-18 (EQT0134) that is also routed to the fume scrubber. That scrubber will be renamed to the Nos. 3 and 4 Nitric Acid Storage Tanks Fume Scrubber, NNA-6 (EQT0133).

Estimated emissions in tons per year are as follows:

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
PM ₁₀	170.90	169.95	-0.95
SO ₂	0.40	0.33	-0.07
NO _x	900.28	627.10	-273.18
CO	946.50	487.20	-459.30
VOC	3.61	2.92	-0.69
Ammonia	134.87	120.86	-14.01
Nitric acid	29.77	27.82	-1.95
Chlorine	3.40	3.40	-

A technical review of the working draft of the proposed permit was submitted to the facility representative and the LDEQ Surveillance Division. Any remarks received during the technical review will be addressed in the "Worksheet for Technical Review of Working Draft of Proposed Permit". All remarks received by LDEQ are included in the record that is available for public review.

Written comments, written requests for a public hearing or written requests for notification of the final decision regarding this permit action may be submitted to Ms. Soumaya Ghosn at LDEQ, Public Participation Group, P.O. Box 4313, Baton Rouge, LA 70821-4313. **Written comments and/or written requests must be received by 12:30 p.m., Thursday, August 6, 2009.** Written comments will be considered prior to a final permit

decision.

If LDEQ finds a significant degree of public interest, a public hearing will be held. LDEQ will send notification of the final permit decision to the applicant and to each person who has submitted written comments or a written request for notification of the final decision.

The application and associated Emission Inventory Questionnaires are available for review at the LDEQ, Public Records Center, Room 127, 602 North 5th Street, Baton Rouge, LA. Viewing hours are from 8:00 a.m. to 4:30 p.m., Monday through Friday (except holidays). **The available information can also be accessed electronically on the Electronic Document Management System (EDMS) on the DEQ public website at www.deq.louisiana.gov.**

Additional copies may be reviewed at the Iberville Parish Library, East Iberville Branch, 5715 Monticello Street, St. Gabriel LA 70776 and the Ascension Parish Library, Gonzales Branch, 708 South Irma Boulevard, Gonzales LA 70737.

Inquiries or requests for additional information regarding this permit action should be directed to Kermit Wittenburg, LDEQ, Air Permits Division, P.O. Box 4313, Baton Rouge, LA 70821-4313, phone (225) 219-3008.

Persons wishing to be included on the LDEQ permit public notice mailing list or for other public participation related questions should contact the Public Participation Group in writing at LDEQ, P.O. Box 4313, Baton Rouge, LA 70821-4313, by email at deqmailrequest@la.gov or contact the LDEQ Customer Service Center at (225) 219-LDEQ (219-5337).

Permit public notices including electronic access to the proposed permit and statement of basis can be viewed at the LDEQ permits public notice webpage at www.deq.louisiana.gov/apps/pubNotice/default.asp and general information related to the public participation in permitting activities can be viewed at www.deq.louisiana.gov/portal/tabid/2198/Default.aspx.

Alternatively, individuals may elect to receive the permit public notices via email by subscribing to the LDEQ permits public notice List Server at http://www.doa.louisiana.gov/oes/listservpage/ldeq_pn_listserv.htm.

All correspondence should specify AI Number 3732, Permit Number 2240-V5, and Activity Number PER20080007.

Scheduled Publication Date: July 2, 2009 in The Plaquemine Post South and July 3, 2009 in The Gonzales Weekly Citizen and The Advocate

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
PCS Nitrogen Fertilizer LP - Nitrate Group - Geismar Agricultural Nitrogen & Phosphate Plant
Agency Interest No.: 3732
PCS Nitrogen Fertilizer LP
Geismar, Ascension Parish, Louisiana

I. Background

PCS Nitrogen Fertilizer owns and operates a fertilizer production facility near Geismar, Louisiana. In 1984, the facility ownership was transferred from Allied Corporation to Arcadian Fertilizer, L.P., which was changed to PCS Nitrogen Fertilizer, L.P. in March 1997. The facility consists of four main production groups: phosphate, sulfuric acid, ammonia, and nitrate. The Nitrate Group operated under several permits, including Permit Numbers 731, 1908, 2240, 2240(M-1), 2240(M-2), and PSD-LA-603. The initial Part 70 operating permit 2240-V0 was issued to the Nitrate Group on September 18, 1997 and modified (2240-V1) on November 18, 1999, June 7, 2004, and again on May 16, 2007.

The PCS Nitrogen Fertilizer LP - Nitrate Group - Geismar Agricultural Nitrogen & Phosphate Plant currently operates under Permit No. 2240-V4, issued November 26, 2007, and an administrative amendment to PSD Permit PSD-LA-603 issued March 18, 2004. This is the Part 70 operating permit for the facility.

II. Origin

A permit application and Emission Inventory Questionnaire dated December 5, 2008 were submitted by PCS Nitrogen Fertilizer LP requesting a renewal and minor modification to the Part 70 operating permit.

III. Description

Production of nitric acid is initiated by converting anhydrous ammonia to a vapor. Compressed air and gaseous ammonia are mixed and reacted over a catalyst to produce nitrogen oxides (NO_x). The NO_x gas is cooled and sent to an absorption tower where NO_x is absorbed in water to produce nitric acid. The facility consists of four separate nitric acid trains, numbered from 2 through 5.

Nitric acid is reacted with ammonia to form ammonium nitrate in aqueous solution at the Ammonium Nitrate Plants. This solution is prepared for shipment in the mixing plant. The facility currently has two separate ammonium nitrate lines.

PCS Nitrogen Fertilizer is currently permitted for an average nitric acid production rate of 3,300 tons per day and a maximum production rate of 3,520 tons per day. The total ammonium nitrate production rate is currently permitted for 1,975 tons per day.

PCS Nitrogen previously modified the operations of the No. 3 Nitric Acid train by allowing for the production of stronger acid. The previous allowable emission rates were based upon 100% production of 57% strength nitric acid. At times, the market demand for 65% nitric

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
PCS Nitrogen Fertilizer LP - Nitrate Group - Geismar Agricultural Nitrogen & Phosphate Plant
Agency Interest No.: 3732
PCS Nitrogen Fertilizer LP
Geismar, Ascension Parish, Louisiana

acid is high. A selective catalytic reduction unit on Train No. 3 was installed to the existing outlet of the Absorber Unit to control emissions of NO_x when producing 65% strength nitric acid during the alternate operating scenario.

With this renewal, PCS Nitrogen is deleting the No. 2 Nitric Acid Train, which includes sources NNA2-1 (EQT0003, Nitric Acid Train No. 2) and NNA2-2 (FUG0002, Nitric Acid Train No. 2 fugitives). The train has been physically removed from the facility property.

The fugitive count for Nitric Acid Train No. 5 will be reconciled to reflect existing installed components.

This modification will also incorporate a previously authorized Authorization to Construct for the conversion of the Uran Storage Tank No. 3, ASL-4 (EQT0118) to the No. 3 Nitric Acid Storage Tank, ASL-17 (EQT0132). With that conversion, a nitric acid fume scrubber was installed to service the tank. In addition to that change, the facility will now demolish the Uran Storage Tank No. 4, ASL-5 (EQT0119) and replace it with a new No. 4 Nitric Acid Storage Tank, ASL-18 (EQT0134) that is also routed to the fume scrubber. That scrubber will be renamed to the Nos. 3 and 4 Nitric Acid Storage Tanks Fume Scrubber, NNA-6 (EQT0133).

Estimated emissions in tons per year are as follows:

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
PM ₁₀	170.90	169.95	-0.95
SO ₂	0.40	0.33	-0.07
NO _x	900.28	627.10	-273.18
CO	946.50	487.20	-459.30
VOC	3.61	2.92	-0.69
Ammonia	134.87	120.86	-14.01
Nitric acid	29.77	27.82	-1.95
Chlorine	3.40	3.40	-

IV. Type of Review

This permit was reviewed for compliance with 40 CFR 70, the Louisiana Air Quality Regulations. Prevention of Significant Deterioration (PSD), New Source Performance Standards (NSPS) and National Emission Standards for Hazardous Air Pollutants (NESHAP) do not apply to this modification.

This facility is a major source of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51.

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
PCS Nitrogen Fertilizer LP - Nitrate Group - Geismar Agricultural Nitrogen & Phosphate Plant
Agency Interest No.: 3732
PCS Nitrogen Fertilizer LP
Geismar, Ascension Parish, Louisiana

V. Credible Evidence

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

VI. Public Notice

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, on MONTH XX, 2009; and in the *Post/South*, Plaquemine, on MONTH XX, 2009, as well as the *Gonzales Weekly*, Gonzales on MONTH XX, 2009. A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List on MONTH XX, 2009. All comments will be considered prior to the final permit decision.

VII. Effects on Ambient Air

Emissions associated with the proposed modification were reviewed by the Air Quality Assessment Division to ensure compliance with the NAAQS and AAS. LDEQ did not require the applicant to model emissions for the renewal. The facility did perform ISCST3 dispersion modeling for the permit issued June 7, 2004 as shown below.

Dispersion Model(s) Used: ISCST3 (Performed for permit issued June 7, 2004)

Pollutant	Time Period	Calculated Maximum Ground Level Concentration	Louisiana Toxic Air Pollutant Ambient Air Quality Standard or (National Ambient Air Quality Standard {NAAQS})
NH ₃	8-hour	426 µg/m ³	640 µg/m ³
PM ₁₀	24-hour	127.66 µg/m ³	(150 µg/m ³)

VIII. General Condition XVII Activities

ID	Description	NOx Emissions
NNA-GC-1	Nitric Acid Train Turnaround Activities	250 lbs/train/yr

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
PCS Nitrogen Fertilizer LP - Nitrate Group - Geismar Agricultural Nitrogen & Phosphate Plant
Agency Interest No.: 3732
PCS Nitrogen Fertilizer LP
Geismar, Ascension Parish, Louisiana

ID	Description	NOx Emissions
NNA-GC-2	Nitric Acid Train 4 Ammonia Vaporizer Bleed	52 lbs/yr
NNA-GC-3	Nitric Acid Train Sample Collection Activities	58.4 lbs/train/yr
NNA-GC-4	Nitric Acid Train Emptying & Draining of Equipment	47 lbs/train/year
	Ammonium Nitrate Train 2 Nitric Acid Wash Tank	22.2 lbs/yr
	Ammonium Nitrate Train Turnaround Activities	100 lbs/train/yr
EQT4-GC5	Nitric Acid Train 3 Startup/Shutdown	2882 lbs/yr
EQT9-GC6	Nitric Acid Train 5 Startup/Shutdown	2400 lbs/yr

IX. Insignificant Activities

ID No.:	Description	Citation
N-IA-01	Wastewater Storage Tank 03G-117	Insignificant Activity per LAC 33:III.501.B.5.C.1.
N-IA-02	Chilled Water Tank 03G-118	Insignificant Activity per LAC 33:III.501.B.5.C.1.
N-IA-03	Surge Tank 205	Insignificant Activity per LAC 33:III.501.B.5.C.1.
N-IA-04	Caustic Storage Tank 239	Insignificant Activity per LAC 33:III.501.B.5.B.40.
N-IA-05	Demineralized Water Tank B-102	Insignificant Activity per LAC 33:III.501.B.5.C.1.
N-IA-06	Noncommercial Water Washing Operations of Empty Drums	Insignificant Activity per LAC 33:III.501.B.5.A.7.
N-IA-07	Laboratory Equipment/Vents	Insignificant Activity per LAC 33:III.501.B.5.A.6.
N-IA-08	Rainwater Pump*	Insignificant Activity per LAC 33:III.501.B.5.D

- * This items currently qualify as an insignificant activity. Any replacement of this item by a new engine that is an affected source under either NSPS IIII or JJJJ, will require a permit modification and a removal of the source from the insignificant activities list.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

PCS Nitrogen Fertilizer LP - Nitrate Group - Geismar Agricultural Nitrogen & Phosphate Plant

Agency Interest No.: 3732

PCS Nitrogen Fertilizer LP

Geismar, Ascension Parish, Louisiana

X. Table 1 Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III.						LAC 33:III.Chapter								
		509	2103	2111	2115	2307	5 ^A	9	11	13	15	22	29*	51*	56	59
EQT0004	Nitric Acid Train 3					3						2				
EQT0005	Nitric Acid Train 3 Steam Superheater							1	1							
EQT0006	Nitric Acid Trains 2 & 3 Brine Chiller													1		
EQT0007	Nitric Acid Train 4	1				1		1	1		2		1			
EQT0008	Nitric Acid Train-4 Cooling Tower												1			
EQT0009	Nitric Acid Train 5					3					2		1			
EQT0010	Nitric Acid Train 5 Cooling Tower												1			
EQT0011	Nitric Acid Train 5 Ammonia Flash Pot												1			
EQT0012	Fume Scrubber 03G-119												1			
EQT0013	Fume Scrubber 218A												1			
EQT0014	Fume Scrubber 308												1			
EQT0015	Utility Cooling Tower												1			
EQT0016	Utility Boiler No. 2							1	1							
EQT0017	Ammonium Nitrate Plant 1								1					1		
EQT0018	Ammonium Nitrate Plant 1 Condensate Tank													1		
EQT0019	Ammonium Nitrate Plant 2									1				1		
EQT0020	Ammonium Nitrate Plant 2 Wastewater Evaporator									1				1		
EQT0021	Ammonium Nitrate Loading									1				1		
EQT0022	65% Nitric Acid/Ammonium Nitrate Tank V-117													1		
EQT0023	East Nitric Acid Tank 1 V-107													1		
EQT0024	West Nitric Acid Tank 2 V-104													1		
EQT0025	Nitric Acid Solution Tank 201													1		

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

PCS Nitrogen Fertilizer LP - Nitrate Group - Geismar Agricultural Nitrogen & Phosphate Plant

Agency Interest No.: 3732

PCS Nitrogen Fertilizer LP

Geismar, Ascension Parish, Louisiana

X. Table 1 Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III.					LAC 33:III.Chapter									
		509	2103	2111	2115	2307	5 ^A	9	11	13	15	22	29*	51*	56	59
EQT0026	Nitric Acid Truck Loading Tank 201A													1		
EQT0027	Nitric Acid Truck Loading													1		
EQT0028	Nitric Acid Train 4 - Product Storage Tank West 03G-115													1		
EQT0029	Nitric Acid Train 5 - Product Storage Tank A TK-0001A													1		
EQT0031	Ammonium Nitrate Train 2 - Condensate Tank TK-242													1		
EQT0032	Ammonium Nitrate Plant 2 Neutralizer													1		
EQT0033	Ammonium Nitrate Train 1 - Surge Tank V-304													1		
EQT0034	Ammonium Nitrate Plant 1 Neutralizer													1		
EQT0035	Nitric Acid Train 4 - Product Storage Tank East 03G-116													1		
EQT0036	Nitric Acid Train 5 - Product Storage Tank B TK-0001B													1		
EQT0037	Nitric Acid Railcar Loading Tank													1		
EQT0038	Nitric Acid Train 5 - Startup Tank 125TK005													1		
EQT0131	Nitric Acid Railcar Pressure Testing Air Compressor												1	1		
EQT0132	No. 3 Nitric Acid Storage Tank													1		
EQT0133	Nos. 3 and 4 Nitric Acid Storage Tanks Fume Scrubber													1		
EQT0134	No. 4 Nitric Acid Storage Tank													1		
FUG0003	Nitric Acid Train 3 Fugitives													1		

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

PCS Nitrogen Fertilizer LP - Nitrate Group - Geismar Agricultural Nitrogen & Phosphate Plant

Agency Interest No.: 3732

PCS Nitrogen Fertilizer LP

Geismar, Ascension Parish, Louisiana

X. Table 1 Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III.				LAC 33:III.Chapter									
		5092103	2111	2115	2307	5 [▲]	9	11	13	15	22	29*	51*	56	59
FUG0004	Nitric Acid Train 4 Fugitives	1													
FUG0005	Nitric Acid Train 5 Fugitives														
FUG0006	Ammonium Nitrate Plant 1 Fugitives														
FUG0007	Ammonium Nitrate Plant 2 Fugitives														
UNF0002	Nitrate Group					1	1							1	1

KEY TO MATRIX

- 1 - The regulations have applicable requirements which apply to this particular emission source.
 - The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
 - 2 - The regulations have applicable requirements which apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
 - 3 - The regulations apply to this general type of emission source (i.e. vents, furnaces, and fugitives) but do not apply to this particular emission source.
- Blank - The regulations clearly do not apply to this type of emission source.
- * The regulations indicated above are State Only regulations.
 - ▲ All LAC 33:III Chapter 5 citations are federally enforceable including LAC 33:III.501.C.6 citations, except when the requirement found in the "Specific Requirements" report specifically states that the regulation is State Only.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

PCS Nitrogen Fertilizer LP - Nitrate Group - Geismar Agricultural Nitrogen & Phosphate Plant
 Agency Interest No.: 3732
 PCS Nitrogen Fertilizer LP
 Geismar, Ascension Parish, Louisiana

X. Table 1 Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60				40 CFR 61				40 CFR 63			40 CFR				
		A	Db	Dc	G	Kb	A	F	J	FF	A	F	G	H	64	68	72
EQT0004	Nitric Acid Train 3	1			1										1		
EQT0005	Nitric Acid Train 3 Steam Superheater																
EQT0006	Nitric Acid Trains 2 & 3 Brine Chiller																
EQT0007	Nitric Acid Train 4				3										1		
EQT0008	Nitric Acid Train 4 Cooling Tower																
EQT0009	Nitric Acid Train 5	1			1										1		
EQT0010	Nitric Acid Train 5 Cooling Tower																
EQT0011	Nitric Acid Train 5 Ammonia Flash Pot																
EQT0012	Fume Scrubber 03G-119																
EQT0013	Fume Scrubber 218A																
EQT0014	Fume Scrubber 308																
EQT0015	Utility Cooling Tower																
EQT0016	Utility Boiler No. 2	1	1														
EQT0017	Ammonium Nitrate Plant 1																
EQT0018	Ammonium Nitrate Plant 1 Condensate Tank																
EQT0019	Ammonium Nitrate Plant 2																
EQT0020	Ammonium Nitrate Plant 2 Wastewater Evaporator																
EQT0021	Ammonium Nitrate Loading																
EQT0022	65% Nitric Acid/Ammonium Nitrate Tank V-117																
EQT0023	East Nitric Acid Tank 1 V-107																

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

PCS Nitrogen Fertilizer LP - Nitrate Group - Geismar Agricultural Nitrogen & Phosphate Plant
 Agency Interest No.: 3732
 PCS Nitrogen Fertilizer LP
 Geismar, Ascension Parish, Louisiana

X. Table 1 Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60				40 CFR 61				40 CFR 63			40 CFR				
		A	Db	Dc	G	Kb	A	F	J	FF	A	F	G	H	64	68	72
EQT0024	West Nitric Acid Tank 2 V-104																
EQT0025	Nitric Acid Solution Tank 201																
EQT0026	Nitric Acid Truck Loading Tank 201A																
EQT0027	Nitric Acid Truck Loading																
EQT0028	Nitric Acid Train 4 - Product Storage Tank West 03G-115																
EQT0029	Nitric Acid Train 5 - Product Storage Tank A TK-0001A																
EQT0031	Ammonium Nitrate Train 2 - Condensate Tank TK-242																
EQT0032	Ammonium Nitrate Plant 2 Neutralizer																
EQT0033	Ammonium Nitrate Train 1 - Surge Tank V-304																
EQT0034	Ammonium Nitrate Plant 1 Neutralizer																
EQT0035	Nitric Acid Train 4 - Product Storage Tank East 03G-116																
EQT0036	Nitric Acid Train 5 - Product Storage Tank B TK-0001B																
EQT0037	Nitric Acid Railcar Loading Tank																
EQT0038	Nitric Acid Train 5 - Startup Tank 125TK005																
EQT0131	Nitric Acid Railcar Pressure Testing Air Compressor																
EQT0132	No. 3 Nitric Acid Storage Tank																
EQT0133	Nos. 3 and 4 Nitric Acid Storage Tanks Fume Scrubber																
EQT0134	No. 4 Nitric Acid Storage Tank																

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

PCS Nitrogen Fertilizer LP - Nitrate Group - Geismar Agricultural Nitrogen & Phosphate Plant
 Agency Interest No.: 3732
 PCS Nitrogen Fertilizer LP
 Geismar, Ascension Parish, Louisiana

X. Table 1 Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60			40 CFR 61			40 CFR 63			40 CFR						
		A	Db	Dc	G	Kb	A	F	J	FF	A	F	G	H	64	68	72
FUG0003	Nitric Acid Train 3 Fugitives																
FUG0004	Nitric Acid Train 4 Fugitives																
FUG0005	Nitric Acid Train 5 Fugitives																
FUG0006	Ammonium Nitrate Plant 1 Fugitives																
FUG0007	Ammonium Nitrate Plant 2 Fugitives																
UNF0002	Nitrate Group																1

KEY TO MATRIX

- 1 - The regulations have applicable requirements which apply to this particular emission source.
 - The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
 - 2 - The regulations have applicable requirements which apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
 - 3 - The regulations apply to this general type of emission source (i.e. vents, furnaces, and fugitives) but do not apply to this particular emission source.
- Blank -- The regulations clearly do not apply to this type of emission source.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

PCS Nitrogen Fertilizer LP - Nitrate Group - Geismar Agricultural Nitrogen & Phosphate Plant

Agency Interest No.: 3732

PCS Nitrogen Fertilizer LP

Geismar, Ascension Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source		Notes
ID No:	Requirement	
EQT007	Emission Standards for Sulfur Dioxide Recordkeeping and Reporting [LAC 33:III.1503.C] Emission Standards for Sulfur Dioxide Continuous Emissions Monitoring [LAC 33:III.1511.A]	EXEMPT. Unit emits less than 250 tons of SO ₂ per year and is exempt from LAC 33:III.1503.C. Unit emits less than 100 tpy and is exempt from continuous monitoring. Record and retain at the site for at least 2 years the data required to demonstrate exemption from SO ₂ standards per LAC 33:III.1513. Exemption data shall be reported annually in accordance with LAC 33:III.918.
	Control of NO _x in a nonattainment area LAC 33:III.2201	EXEMPT per LAC 33:III.2201.C.17, subject to LAC 33:III.2307
	NSPS Subpart G for nitric acid plants 40 CFR 60.70	DOES NOT APPLY. This Nitric Acid Train was constructed prior to 1971
EQT004, EQT009	Control of NO _x in a nonattainment area LAC 33:III.2201	EXEMPT per LAC 33:III.2201.C.17, subject to 40 CFR 60 Subpart G.
	Emission Standards for the Nitric Acid Industry, LAC 33:III.2307	DOES NOT APPLY. The Nitric Acid Trains are subject to 40 CFR 60 Subpart G.
EQT005, EQT016	Emission Standards for Sulfur Dioxide Recordkeeping and Reporting [LAC 33:III.1503.C] Emission Standards for Sulfur Dioxide Continuous Emissions Monitoring [LAC 33:III.1511.A]	EXEMPT. Unit emits less than 250 tons of SO ₂ per year and is exempt from LAC 33:III.1503.C. Unit emits less than 100 tpy and is exempt from continuous monitoring. Record and retain at the site for at least 2 years the data required to demonstrate exemption from SO ₂ standards per LAC 33:III.1513. Exemption data shall be reported annually in accordance with LAC 33:III.918.
GRP034	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III. Chapter 51]	EXEMPT. All associated equipment emit pollutants, which are Class III TAPs. These pollutants are not subject to MACT control per LAC 33:III.5109.A Emissions must be included in the annual TEDI submittal required per LAC 33:III.5107.A.2.

The above table provides explanation for both the exemption status or non-applicability of a source cited by 1, 2 or 3 in the matrix presented in Section X (Table 1) of this permit.

General Information
AI ID: 3732 PCS Nitrogen Fertilizer LP - Nitrate Group - Geismar Agricultural Nitrogen & Phosphate Plant
Activity Number: PER20080007
Permit Number: 2240-V5
Air - Title V Regular Permit Renewal

Also Known As:

ID	Name	User Group	Start Date
3	Acc Prev Program Level: 3 (Initial Registration)	Asbestos	03-07-1996
0180-00046	PCS Nitrogen Fertilizer LP - Nitrate Group - Geismar Agricultural Nitrogen & Phosphate Plant	CDS Number	08-05-2002
LAD980875934	PCS Nitrogen Fertilizer LP	Hazardous Waste Notification	05-17-2000
LA0066257	WPC File Number	LPDES Permit #	05-22-2003
WP1340	WPC State Permit Number	LWDPS Permit #	06-25-2003
	Acadian Fertilizer	Multimedia	08-05-2002
LA-4903-L01	Priority 1 Emergency Site	Priority 1 Emergency Site	07-18-2006
GD-005-1822	Radioactive Material License	Radiation License Number	08-06-2000
38914	Site ID #	Solid Waste Facility No.	11-21-1999
67914	PCS Nitrogen Fertilizer LP	TEMPO Merge	06-26-2001
70734RCDNCHIGHW	Arcadian Corp	TEMPO Merge	01-07-2002
03018683	TRI #	Toxic Release Inventory	07-14-2004
	UST Facility ID #	UST FID #	05-27-1993

Physical Location:

10886 Hwy 75
 (a portion of)
 Geismar, LA 70734

Main FAX: 2256211504
 Main Phone: 2256211500

Mailing Address:

PO Box 307
 Geismar, LA 707340307

Location of Front Gate:

30.228417 latitude, -91.048639 longitude, Coordinate Method: Lat,Long - DMS, Coordinate Datum: NAD83

Related People:

Name	Mailing Address	Phone (Type)	Relationship
Cheryl Chris	PO Box 307 Geismar, LA 707340307	cheryl.chris@pcsnitr	Employed by
Cheryl Chris	PO Box 307 Geismar, LA 707340307	2256211867 (WP)	Employed by
Cheryl Chris	PO Box 307 Geismar, LA 707340307	cheryl.chris@pcsnitr	Emission Inventory Contact for
Cheryl Chris	PO Box 307 Geismar, LA 707340307	2256211867 (WP)	Emission Inventory Contact for
Cheryl Chris	PO Box 307 Geismar, LA 707340307	cheryl.chris@pcsnitr	TEDI Contact for
Cheryl Chris	PO Box 307 Geismar, LA 707340307	2256211867 (WP)	TEDI Contact for
Hanson Leonard	PO Box 307 Geismar, LA 707340307	hanson.leonard@pc	Water Billing Party for
Hanson Leonard	PO Box 307 Geismar, LA 707340307	2256211867 (WP)	Water Billing Party for
Hanson Leonard	PO Box 307 Geismar, LA 707340307	hanson.leonard@pc	Accident Prevention Contact for
Hanson Leonard	PO Box 307 Geismar, LA 707340307	2256211867 (WP)	Accident Prevention Contact for
Hanson Leonard	PO Box 307 Geismar, LA 707340307	2256211867 (WP)	Responsible Official for
Hanson Leonard	PO Box 307 Geismar, LA 707340307	hanson.leonard@pc	Responsible Official for
Nicole Roper	PO Box 307 Geismar, LA 707340307	2256211808 (WP)	Water Permit Contact For

General Information

AI ID: 3732 PCS Nitrogen Fertilizer LP - Nitrate Group - Geismar Agricultural Nitrogen & Phosphate Plant
Activity Number: PER20080007
Permit Number: 2240-V5
Air - Title V Regular Permit Renewal

Related People:

Name	Mailing Address	Phone (Type)	Relationship
Nicole Roper	PO Box 307 Geismar, LA 707340307	2256211683 (WF)	Water Permit Contact For
Nicole Roper	PO Box 307 Geismar, LA 707340307	2256211808 (WP)	Hazardous Waste Permit Contact For
Nicole Roper	PO Box 307 Geismar, LA 707340307	2256211683 (WF)	Accident Prevention Billing Party for
Nicole Roper	PO Box 307 Geismar, LA 707340307	2256211808 (WP)	Accident Prevention Billing Party for
Nicole Roper	PO Box 307 Geismar, LA 707340307	2256211683 (WF)	Accident Prevention Contact for
Nicole Roper	PO Box 307 Geismar, LA 707340307	2256211808 (WP)	Accident Prevention Contact for
Nicole Roper	PO Box 307 Geismar, LA 707340307	2256211683 (WF)	Hazardous Waste Permit Contact For
Ronald Wingate	PO Box 307 Geismar, LA 707340307	ron.wingate@pcsnitr	Radiation Safety Officer for
Ronald Wingate	PO Box 307 Geismar, LA 707340307	2256211683 (WF)	Radiation Safety Officer for
Ronald Wingate	PO Box 307 Geismar, LA 707340307	2256211856 (WP)	Radiation Safety Officer for
Ronald Wingate	PO Box 307 Geismar, LA 707340307	2256602061 (DP)	Radiation Safety Officer for

Related Organizations:

Name	Address	Phone (Type)	Relationship
PCS Nitrogen Fertilizer LP	PO Box 307 Geismar, LA 707340307		Operates
PCS Nitrogen Fertilizer LP	PO Box 307 Geismar, LA 707340307		Owns
PCS Nitrogen Fertilizer LP	PO Box 307 Geismar, LA 707340307		Air Billing Party for
PCS Nitrogen Fertilizer LP	PO Box 307 Geismar, LA 707340307		Emission Inventory Billing Party
PCS Nitrogen Fertilizer LP	PO Box 307 Geismar, LA 707340307		Solid Waste Billing Party for
PCS Nitrogen Fertilizer LP	PO Box 307 Geismar, LA 707340307		Radiation License Billing Party for
PCS Nitrogen Fertilizer LP	PO Box 307 Geismar, LA 707340307		UST Billing Party for
PCS Nitrogen Fertilizer LP	PO Box 307 Geismar, LA 707340307		Haz. Waste Billing Party for

NAIC Codes:

32531, Fertilizer Manufacturing

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Ms. Tommie Milam, Permit Support Services Division, at (225) 219-3259 or email your changes to facupdate@la.gov.

INVENTORIES
AI ID: 3732 - PCS Nitrogen Fertilizer LP - Nitrate Group - Geismar Agricultural Nitrogen & Phosphate Plant
Activity Number: PER20080007
Permit Number: 2240-V5
Air - Title V Regular Permit Renewal

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
Nitrate Group						
EQT 0004	NNA3-1 - Nitric Acid Train 3		237250 tons/yr	650 tons/day	57% Nitric Acid, (See AII Scenario)	8760 hr/yr
EQT 0005	NNA3-3 - Nitric Acid Train 3 - Steam Super Healer		5 MM BTU/hr			8760 hr/yr
EQT 0006	NNA3-4 - Nitric Acid Train 3 Brine Chiller					8760 hr/yr
EQT 0007	NNA4-1 - Nitric Acid Train 4		200750 tons/yr	550 tons/day	Nitric Acid, Max Prod = 600 tpd	8760 hr/yr
EQT 0008	NNA4-3 - Nitric Acid Train 4 Cooling Tower		15000 gallons/min			8760 hr/yr
EQT 0009	NNA5-1 - Nitric Acid Train 5		584000 tons/yr	1600 tons/day	Nitric Acid, Max Prod = 1750 tpd	8760 hr/yr
EQT 0010	NNA5-3 - Nitric Acid Train 5 Cooling Tower		34000 gallons/min			8760 hr/yr
EQT 0011	NNA5-4 - Nitric Acid Train 5 - Ammonia Oil Flash Pot					8760 hr/yr
EQT 0012	NNA-1 - Fume Scrubber 03G-119					8760 hr/yr
EQT 0013	NNA-2 - Fume Scrubber 218A					8760 hr/yr
EQT 0014	NNA-3 - Fume Scrubber 308					8760 hr/yr
EQT 0015	NNA-4 - Utility Cooling Tower		60000 gallons/min			8760 hr/yr
EQT 0016	NNA-5 - Utility Boiler 2		225 MM BTU/hr			8760 hr/yr
EQT 0017	NAN1-1 - Ammonium Nitrate Plant 1		1175 tons/day		Ammonium Nitrate	8760 hr/yr
EQT 0018	NAN1-3 - Ammonium Nitrate Plant 1 Condensate Tank	5300 gallons				8760 hr/yr
EQT 0019	NAN2-1 - Ammonium Nitrate Plant 2		800 tons/day	800 tons/day	Ammonium Nitrate	8760 hr/yr
EQT 0020	NAN2-3 - Ammonium Nitrate Plant 2 Wastewater Evaporator					8760 hr/yr
EQT 0021	NAN-1 - Ammonium Nitrate Loading		3000 tons/yr			8760 hr/yr
EQT 0022	V-117 - 65% Nitric Acid/Ammonium Nitrate Tank	200000 gallons				8760 hr/yr
EQT 0023	V-107 - East Nitric Acid Tank 1	11280 gallons				8760 hr/yr
EQT 0024	V-104 - West Nitric Acid Tank 2	7880 gallons				8760 hr/yr
EQT 0025	201 - Nitric Acid Solution Tank	8723 gallons				8760 hr/yr
EQT 0026	201A - Nitric Acid Truck Loading Tank	21108 gallons				8760 hr/yr
EQT 0027	- - Nitric Acid Truck Loading		437 MM tons/yr			8760 hr/yr
EQT 0028	03G-115 - Nitric Acid Train 4 - Product Storage Tank West	126835 gallons				8760 hr/yr
EQT 0029	T-0001A - Nitric Acid Train 5 - Product Storage Tank A	685580 gallons				8760 hr/yr
EQT 0031	TK-242 - Ammonium Nitrate Train 2 - Condensate Tank					8760 hr/yr
EQT 0032	- - Ammonium Nitrate Plant 2 Neutralizer		800 tons/day			8760 hr/yr
EQT 0033	V-304 - Ammonium Nitrate Train 1 - Surge Tank	3570 gallons				8760 hr/yr
EQT 0034	- - Ammonium Nitrate Plant 1 Neutralizer		1175 tons/day			8760 hr/yr
EQT 0035	03G-116 - Nitric Acid Train 4 - Product Storage Tank East	126835 gallons				8760 hr/yr
EQT 0036	T-0001B - Nitric Acid Train 5 - Product Storage Tank B	685580 gallons				8760 hr/yr
EQT 0037	- - Nitric Acid Railcar Loading Tank	17766 gallons				8760 hr/yr
EQT 0038	125TK005 - Nitric Acid Train 5 - Startup Tank	48000 gallons				8760 hr/yr
EQT 0131	NNA-7 - Nitric Acid Railcar Pressure Testing Air Compressor			115 horsepower		182.5 hr/yr
EQT 0132	ASL-17 - No. 3 Nitric Acid Storage Tank	761000 gallons		7.61 MM gallons/yr	65% Nitric Acid	8760 hr/yr
EQT 0133	NNA-6 - Nos. 3 and 4 Nitric Acid Storage Tanks Fume Scrubber			5 gallons/min		8760 hr/yr

INVENTORIES
AI ID: 3732 - PCS Nitrogen Fertilizer LP - Nitrate Group - Gelsmar Agricultural Nitrogen & Phosphate Plant
Activity Number: PER20080007
Permit Number: 2240-V5
Air - Title V Regular Permit Renewal

Subject Item Inventory:		Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
ID	Description					
Nitrate Group						
EQT 0134	ASL-18 - No. 4 Nitric Acid Storage Tank	1.04 million gallons		10.36 MM gallons/yr	65% Nitric Acid	8760 hr/yr
FUG 0003	NNA3-2 - Nitric Acid Train 3 Fugitives		650 tons/day		Nitric Acid	8760 hr/yr
FUG 0004	NNA4-2 - Nitric Acid Train 4 Fugitives		600 tons/day		Nitric Acid	8760 hr/yr
FUG 0005	NNA5-2 - Nitric Acid Train 5 Fugitives		1750 tons/day		Nitric Acid	8760 hr/yr
FUG 0006	NAN1-2 - Ammonium Nitrate Plant 1 Fugitives				Ammonium Nitrate	8760 hr/yr
FUG 0007	NAN2-2 - Ammonium Nitrate Plant 2 Fugitives				Ammonium Nitrate	8760 hr/yr

Stack Information:

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
Nitrate Group							
EQT 0004	NNA3-1 - Nitric Acid Train 3	71.1	53648	4		50	140
EQT 0005	NNA3-3 - Nitric Acid Train 3 - Steam Super Heater	10.3	1936	2		51	600
EQT 0006	NNA3-4 - Nitric Acid Train 3 Brine Chiller	0	100	1		20	77
EQT 0007	NNA4-1 - Nitric Acid Train 4	109	62984	3.5		144.06	317
EQT 0008	NNA4-3 - Nitric Acid Train 4 Cooling Tower						
EQT 0009	NNA5-1 - Nitric Acid Train 5	95.4	148525	5.75		197	244
EQT 0010	NNA5-3 - Nitric Acid Train 5 Cooling Tower						
EQT 0011	NNA5-4 - Nitric Acid Train 5 - Ammonia Oil Flash Pot	0	6000	.83		60	77
EQT 0012	NNA-1 - Fume Scrubber 03G-119	2	30000	1		30	80
EQT 0013	NNA-2 - Fume Scrubber 218A	2	30000	1		30	80
EQT 0014	NNA-3 - Fume Scrubber 308	2	30000	1		30	80
EQT 0015	NNA-4 - Utility Cooling Tower						
EQT 0016	NNA-5 - Utility Boiler 2	59	68960	5		100	300
EQT 0017	NAN1-1 - Ammonium Nitrate Plant 1	57.17	10776	2		44.5	200
EQT 0018	NAN1-3 - Ammonium Nitrate Plant 1 Condensate Tank	0	100	1		20	77
EQT 0019	NAN2-1 - Ammonium Nitrate Plant 2	101.1	4760	1.33		42	208
EQT 0020	NAN2-3 - Ammonium Nitrate Plant 2 Wastewater Evaporator	204	25429	1.63		27	168
EQT 0021	NAN-1 - Ammonium Nitrate Loading						
EQT 0027	- - Nitric Acid Truck Loading						
EQT 0131	NNA-7 - Nitric Acid Railcar Pressure Testing Air Compressor	0	6000	.3		5	77
EQT 0133	NNA-6 - Nos. 3 and 4 Nitric Acid Storage Tanks Fume Scrubber	7.6	2450	.66		44	80
FUG 0003	NNA3-2 - Nitric Acid Train 3 Fugitives						

INVENTORIES
AI ID: 3732 - PCS Nitrogen Fertilizer LP - Nitrate Group - Galsmar Agricultural Nitrogen & Phosphate Plant
Activity Number: PER20080007
Permit Number: 2240-V5
Air - Title V Regular Permit Renewal

Stack Information:		Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
ID	Description						
Nitrate Group							
FUG 0004	NNA4-2 - Nitric Acid Train 4 Fugitives						
FUG 0005	NNA5-2 - Nitric Acid Train 5 Fugitives						
FUG 0006	NAN1-2 - Ammonium Nitrate Plant 1 Fugitives						
FUG 0007	NAN2-2 - Ammonium Nitrate Plant 2 Fugitives						
SCN 0001	NNA3-1a - Nitric Acid Train No. 3 producing 65% strength acid	71.1	53648	4		50	140

Relationships:

ID	Description	Relationship	ID	Description
EQT 0022	V-117 - 65% Nitric Acid/Ammonium Nitrate Tank	Controlled by	EQT 0014	NNA-3 - Fume Scrubber 308
EQT 0023	V-107 - East Nitric Acid Tank 1	Controlled by	EQT 0014	NNA-3 - Fume Scrubber 308
EQT 0024	V-104 - West Nitric Acid Tank 2	Controlled by	EQT 0014	NNA-3 - Fume Scrubber 308
EQT 0025	201 - Nitric Acid Solution Tank	Controlled by	EQT 0013	NNA-2 - Fume Scrubber 218A
EQT 0026	201A - Nitric Acid Truck Loading Tank	Controlled by	EQT 0013	NNA-2 - Fume Scrubber 218A
EQT 0027	-- Nitric Acid Truck Loading	Controlled by	EQT 0013	NNA-2 - Fume Scrubber 218A
EQT 0028	03G-115 - Nitric Acid Train 4 - Product Storage Tank West	Controlled by	EQT 0012	NNA-1 - Fume Scrubber 03G-119
EQT 0029	T-0001A - Nitric Acid Train 5 - Product Storage Tank A	Controlled by	EQT 0019	NAN2-1 - Ammonium Nitrate Plant 2
EQT 0031	TK-242 - Ammonium Nitrate Train 2 - Condensate Tank	Controlled by	EQT 0017	NAN1-1 - Ammonium Nitrate Plant 1
EQT 0032	-- Ammonium Nitrate Plant 2 Neutralizer	Controlled by	EQT 0017	NAN1-1 - Ammonium Nitrate Plant 1
EQT 0033	V-304 - Ammonium Nitrate Train 1 - Surge Tank	Controlled by	EQT 0017	NAN1-1 - Ammonium Nitrate Plant 1
EQT 0034	-- Ammonium Nitrate Plant 1 Neutralizer	Controlled by	EQT 0012	NNA-1 - Fume Scrubber 03G-119
EQT 0035	03G-116 - Nitric Acid Train 4 - Product Storage Tank East	Controlled by	EQT 0012	NNA-1 - Fume Scrubber 03G-119
EQT 0036	T-0001B - Nitric Acid Train 5 - Product Storage Tank B	Controlled by	EQT 0012	NNA-1 - Fume Scrubber 03G-119
EQT 0037	-- Nitric Acid Railcar Loading Tank	Controlled by	EQT 0009	NNA5-1 - Nitric Acid Train 5
EQT 0038	125TK005 - Nitric Acid Train 5 - Startup Tank	Controlled by	EQT 0133	NNA-6 - Nos. 3 and 4 Nitric Acid Storage Tanks Fume Scrubber
EQT 0132	ASL-17 - No. 3 Nitric Acid Storage Tank	Controlled by	EQT 0133	NNA-6 - Nos. 3 and 4 Nitric Acid Storage Tanks Fume Scrubber
EQT 0134	ASL-18 - No. 4 Nitric Acid Storage Tank	Controlled by		

Subject Item Groups:

ID	Group Type	Group Description
SCN 0001	Alternate Operating Scenario	NNA3-1a - Nitric Acid Train No. 3 producing 65% strength acid
UNF 0002	Unit or Facility Wide	Nitrate Group - Nitrate Group

Group Membership:

ID	Description	Member of Groups

INVENTORIES

AI ID: 3732 - PCS Nitrogen Fertilizer LP - Nitrate Group - Gelsmar Agricultural Nitrogen & Phosphate Plant
Activity Number: PER20080007
Permit Number: 2240-V5
Air - Title V Regular Permit Renewal

Group Membership:	
ID	Member of Groups
EQT 0004	NNA3-1 - Nitric Acid Train 3
	SCN0000000001

NOTE: The UNF group relationship is not printed in this table. Every subject item is a member of the UNF group

Annual Maintenance Fee:

Fee Number	Air Contaminant Source	Multiplier	Units Of Measure
0520	0520 Nitric Acid Manufacture (Rated Capacity)	1022	M ton/yr
0650	0650 Fertilizer Manufacture (Rated Capacity)	720.88	M ton/yr

SIC Codes:

2819	Industrial inorganic chemicals, nec	AI 3732
2873	Nitrogenous fertilizers	AI 3732

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 3732 - PCS Nitrogen Fertilizer LP - Nitrate Group - Geismar Agricultural Nitrogen & Phosphate Plant
 Activity Number: PER20080007
 Permit Number: 2240-V5
 Air - Title V Regular Permit Renewal

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year												
Nitrate Group															
EQT 0004															
NNA3-1				59.58	81.25	260.98									
EQT 0005	0.40	0.48	1.75	0.48	0.57	2.09	0.04	0.04	0.16	0.01	0.01	0.01	0.03	0.03	0.11
NNA3-3															
EQT 0007	104.86	125.84	459.30	44.52	135.42	195.00	0.34	0.40	1.48	0.03	0.03	0.12	0.24	0.29	1.07
NNA4-1							1.13	1.88	4.93						
EQT 0008															
NNA4-3															
EQT 0009				25.86	200.02	113.26									
NNA5-1															
EQT 0010							1.02	1.70	4.47						
NNA5-3															
EQT 0012				1.96	2.35	8.57									
NNA-1															
EQT 0013				0.35	0.42	1.53									
NNA-2															
EQT 0014				0.62	0.75	2.72									
NNA-3															
EQT 0015															
NNA-4															
EQT 0016	5.97	18.00	26.14	7.46	22.50	32.67	14.41	30.02	63.12	0.54	1.63	0.19	0.39	1.18	1.71
NNA-5															
EQT 0017							9.80	14.00	42.92						
NNA1-1															
EQT 0018							6.25	7.81	27.36						
NNA1-3															
EQT 0019							1.92	2.41	8.43						
NNA2-1															
EQT 0020							1.47	1.77	6.45						
NNA2-3															
EQT 0021							1.88	2.26	8.25						
NNA-1															
EQT 0131	0.08	0.15	0.01	1.74	1.74	0.16	0.25	0.51	0.02	0.02	0.02	<0.01	0.28	0.57	0.03
NNA-7															
EQT 0133															
NNA-6															
FUG 0003				0.68	1.35	2.96									
NNA3-2															
FUG 0004				0.53	0.64	2.33									
NNA4-2															
FUG 0005				0.53	0.63	2.30									
NNA5-2															
SCN 0001				0.58	0.69	2.53									
NNA5-1															
NNA3-1a				49.58	81.25	217.18									

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote.

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 3732 - PCS Nitrogen Fertilizer LP - Nitrate Group - Geismar Agricultural Nitrogen & Phosphate Plant

Activity Number: PER20080007

Permit Number: 2240-V5

Air - Title V Regular Permit Renewal

Emission rates Notes:

EQT 0007	NOx	Max lb/hr	(PSD-LA-603)	Which Months: All Year
EQT 0007	NOx	Tons/Year	(PSD-LA-603)	Which Months: All Year
FUG 0004	NOx	Max lb/hr	(PSD-LA-603)	Which Months: All Year
FUG 0004	NOx	Tons/Year	(PSD-LA-603)	Which Months: All Year

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 3732 - PCS Nitrogen Fertilizer LP - Nitrate Group - Geismar Agricultural Nitrogen & Phosphate Plant

Activity Number: PER20080007

Permit Number: 2240-V5

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0006 NNA3-4	Ammonia	2.47	2.96	10.82
EQT 0007 NNA4-1	Ammonia	11.80	13.06	51.68
EQT 0008 NNA4-3	Chlorine	0.10	0.12	0.45
EQT 0009 NNA5-1	Ammonia	3.49	17.43	15.27
	Nitric acid	0.01	0.01	0.03
EQT 0010 NNA5-3	Chlorine	0.22	0.27	0.98
EQT 0011 NNA5-4	Ammonia	2.50	5.00	10.95
EQT 0012 NNA-1	Nitric acid	0.16	0.65	0.71
EQT 0013 NNA-2	Nitric acid	0.02	0.09	0.10
EQT 0014 NNA-3	Nitric acid	0.05	0.19	0.21
EQT 0015 NNA-4	Chlorine	0.39	0.47	1.73
EQT 0017 NAN1-1	Ammonia	5.00	10.00	21.90
	Nitric acid	1.35	15.00	5.91
EQT 0018 NAN1-3	Nitric acid	0.30	0.38	1.33
EQT 0019 NAN2-1	Nitric acid	0.12	0.15	0.52
EQT 0020 NAN2-3	Ammonia	0.14	0.16	0.60
	Nitric acid	0.11	0.14	0.50
EQT 0021 NAN-1	Ammonia	0.01	0.01	0.05
EQT 0133 NNA-6	Nitric acid	0.04	0.07	0.17
FUG 0003 NNA3-2	Ammonia	0.46	0.55	2.00
	Nitric acid	0.62	0.74	2.70
FUG 0004 NNA4-2	Ammonia	0.16	0.19	0.71
	Chlorine	0.07	0.08	0.24
	Nitric acid	1.60	1.92	7.02
	Sulfuric acid	<0.01	<0.01	<0.01
FUG 0005 NNA5-2	Ammonia	0.34	0.42	1.48
	Nitric acid	1.20	1.44	5.26
FUG 0006 NAN1-2	Ammonia	0.06	0.08	0.28
	Nitric acid	0.36	0.44	1.59
FUG 0007 NAN2-2	Ammonia	0.07	0.08	0.30
	Nitric acid	0.44	0.53	1.94
SCN 0001 NNA3-1a	Ammonia	1.10	1.32	4.82
UNF 0002 Nitrate Group	Ammonia			120.86

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 3732 - PCS Nitrogen Fertilizer LP - Nitrate Group - Geismar Agricultural Nitrogen & Phosphate Plant

Activity Number: PER20080007

Permit Number: 2240-V5

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
UNF 0002 Nitrate Group	Chlorine			3.40
	Nitric acid			27.82

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote. Emission rates attributed to the UNF reflect the sum of the TAP/HAP limits of the individual emission points (or caps) under this permit, but do not constitute an emission cap.

Emission Rates Notes:

SCN 0001	Ammonia	Avg lb/hr	These emission rates have been included in the facility totals.	Which Months: All Year
SCN 0001	Ammonia	Max lb/hr	These emission rates have been included in the facility totals.	Which Months: All Year
SCN 0001	Ammonia	Tons/Year	These emission rates have been included in the facility totals.	Which Months: All Year

SPECIFIC REQUIREMENTS

AJ ID: 3732 - PCS Nitrogen Fertilizer LP - Nitrate Group - Geismar Agricultural Nitrogen & Phosphate Plant

Activity Number: PER20080007

Permit Number: 2240-V5

Air - Title V Regular Permit Renewal

EQT 0004 NNA3-1 - Nitric Acid Train 3

- 1 [40 CFR 60.72(a)(1)] Nitrogen oxides <= 3 lb/ton (1.5 kg/metric ton) of acid produced, the production being expressed as 100% nitric acid. Subpart G. [40 CFR 60.72(a)(1)]
Which Months: All Year Statistical Basis: None specified
- 2 [40 CFR 60.72(a)(2)] Opacity <= 10 percent. Subpart G. [40 CFR 60.72(a)(2)]
Which Months: All Year Statistical Basis: None specified
- 3 [40 CFR 60.73(a)] Nitrogen oxides recordkeeping by CMS continuously. Subpart G. [40 CFR 60.73(a)]
- 4 [40 CFR 60.73(a)] Nitrogen oxides monitored by CMS continuously. Subpart G. [40 CFR 60.73(a)]
Which Months: All Year Statistical Basis: None specified
- 5 [40 CFR 60.73(b)] Establish a conversion factor for the purpose of converting monitoring data into units of the applicable standard (kg/metric ton, lb/ton). Subpart G. [40 CFR 60.73(b)]
- 6 [40 CFR 60.73(c)] Production rate recordkeeping by electronic or hard copy daily. Record the daily production rate and hours of operation. Subpart G. [40 CFR 60.73(c)]
- 7 [40 CFR 60.74(a)] Use as reference methods and procedures the test methods in 40 CFR 60 Appendix A or other methods and procedures as specified in 40 CFR 60.74, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart G. [40 CFR 60.74(a)]
- 8 [40 CFR 60.74(b)] Determine compliance with the NOx standards in 40 CFR 60.72 using the test methods and procedures specified in 40 CFR 60.74(b)(1) through (b)(4), or (c)(1), as applicable. Subpart G. [40 CFR 60.74(b)]
- 9 [40 CFR 60.74(d)] Use the procedure in 40 CFR 60.73(b) to determine the conversion factor for converting the monitoring data to the units of the standard. Subpart G. [40 CFR 60.74(d)]
- 10 [LAC 33:III.507.G.7] Alternate Operating Scenario: Record in a log, contemporaneous with making a change from one operating scenario to another, the scenario under which the facility, units or sources in this permit are operating. Include in this record the identity of the sources involved, the permit number under which the scenario is included, and the date of change. Keep a copy of the log on site for at least two years.

EQT 0005 NNA3-3 - Nitric Acid Train 3 - Steam Super Heater

- 11 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
Which Months: All Year Statistical Basis: None specified
- 12 [LAC 33:III.1311.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
Which Months: All Year Statistical Basis: Six-minute average

EQT 0007 NNA4-1 - Nitric Acid Train 4

AI ID: 3732 - PCS Nitrogen Fertilizer LP - Nitrate Group - Geismar Agricultural Nitrogen & Phosphate Plant
Activity Number: PER20080007

Permit Number: 2240-V5
Air - Title V Regular Permit Renewal

SPECIFIC REQUIREMENTS

EQT 0007 NNA4-1 - Nitric Acid Train 4

- 13 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
Which Months: All Year Statistical Basis: None specified
- 14 [LAC 33:III.1311.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
Which Months: All Year Statistical Basis: Six-minute average
- 15 [LAC 33:III.2307.C.1.a] Submit report: Due in writing to the Office of Environmental Compliance, Surveillance Division within seven calendar days of a start-up with excess emissions using the procedures provided in LAC 33:I.3925. Explain the conditions and duration of the start-up and list the steps necessary to remedy, prevent, and limit the excess emissions.
Submit report: Due in writing to the Office of Environmental Compliance, Surveillance Division within seven calendar days of an upset causing excess emissions, using the procedures provided in LAC 33:I.3925. Explain the conditions and duration of the upset and list the steps necessary to remedy, prevent, and limit the excess emissions.
- 16 [LAC 33:III.2307.C.2.a] Minimize the duration of excess emissions and do not allow the ambient air quality standard to be jeopardized.
- 17 [LAC 33:III.2307.C.2.c] Nitrogen <= 6.5 lb/ton (3.3 kg/metric ton) of 100 percent acid produced, calculated as nitrogen dioxide. This emission limitation is equivalent to a nitrogen dioxide concentration of approximately 500 ppm by volume.
Which Months: All Year Statistical Basis: None specified
- 18 [LAC 33:III.2307.D] Make or have made tests to determine the emission of air contaminants from any source, as required by DEQ whenever it has reason to believe that an emission in excess of that allowed by LAC 33:III.2307 is occurring. Have all test conducted by reputable, qualified personnel. Give a copy to DEQ of the test results in writing and signed by the person responsible for the test.
- 19 [LAC 33:III.2307.E] Provide, upon request of DEQ, necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities, exclusive of instruments and sensing devices, as may be necessary for proper determination of the emission of air contaminants.
- 20 [LAC 33:III.2307.F] Maintained emissions whose quality is higher than the standards set forth in LAC 33:III.2307 at the higher quality unless it can be affirmatively demonstrated to DEQ that a change in quality is justifiable and will not be contrary to the purpose of these regulations.
- 21 [LAC 33:III.2307.G] Determine oxide of nitrogen concentrations in stack gases using the methods listed in LAC 33:III.1503.D.2, Table 4 or such equivalent method approved by DEQ.
- 22 [LAC 33:III.2307.H.1] Calibrate measurement equipment periodically to comply with minimal American Bureau of Standards Criteria.
- 23 [LAC 33:III.2307.H.2] Nitrogen oxides recordkeeping by CMS continuously. [LAC 33:III.509, 40 CFR 64]
- 24 [LAC 33:III.509] Nitrogen oxides <= 3.0 lb/ton of 100% nitric acid produced, using SNCR (=> 98%) (PSD-LA-603).
- 25 [LAC 33:III.509] Which Months: All Year Statistical Basis: Twelve-month rolling average (rolling 1-month basis)
- 26 [LAC 33:III.509] Nitrogen oxides monitored by CMS continuously. [LAC 33:III.509, 40 CFR 64]
Which Months: All Year Statistical Basis: One-hour average

EQT 0009 NNA5-1 - Nitric Acid Train 5

SPECIFIC REQUIREMENTS

AJ ID: 3732 - PCS Nitrogen Fertilizer LP - Nitrate Group - Geismar Agricultural Nitrogen & Phosphate Plant

Activity Number: PER20080007

Permit Number: 2240-V5

Air - Title V Regular Permit Renewal

EQT 0009 NNA5-1 - Nitric Acid Train 5

- 27 [40 CFR 60.72(a)(1)] Nitrogen oxides <= 3 lb/ton (1.5 kg/metric ton) of acid produced, the production being expressed as 100% nitric acid. Subpart G. [40 CFR 60.72(a)(1)]
Which Months: All Year Statistical Basis: None specified
- 28 [40 CFR 60.72(a)(2)] Opacity <= 10 percent. Subpart G. [40 CFR 60.72(a)(2)]
Which Months: All Year Statistical Basis: None specified
- 29 [40 CFR 60.73(a)] Nitrogen oxides recordkeeping by CMS continuously. Subpart G. [40 CFR 60.73(a)]
- 30 [40 CFR 60.73(a)] Nitrogen oxides monitored by CMS continuously. Subpart G. [40 CFR 60.73(a)]
Which Months: All Year Statistical Basis: None specified
- 31 [40 CFR 60.73(b)] Establish a conversion factor for the purpose of converting monitoring data into units of the applicable standard (kg/metric ton, lb/ton). Subpart G. [40 CFR 60.73(b)]
- 32 [40 CFR 60.73(c)] Production rate recordkeeping by electronic or hard copy daily. Record the daily production rate and hours of operation. Subpart G. [40 CFR 60.73(c)]
- 33 [40 CFR 60.74(a)] Use as reference methods and procedures the test methods in 40 CFR 60 Appendix A or other methods and procedures as specified in 40 CFR 60.74, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart G. [40 CFR 60.74(a)]
- 34 [40 CFR 60.74(b)] Determine compliance with the NOx standards in 40 CFR 60.72 using the test methods and procedures specified in 40 CFR 60.74(b)(1) through (b)(4), or (c)(1), as applicable. Subpart G. [40 CFR 60.74(b)]
- 35 [40 CFR 60.74(d)] Use the procedure in 40 CFR 60.73(b) to determine the conversion factor for converting the monitoring data to the units of the standard. Subpart G. [40 CFR 60.74(d)]

EQT 0012 NNA-1 - Fume Scrubber 03G-119

- 36 [LAC 33:III.501.C.6] Scrubber Liquid Flow rate monitored by measurement once every shift during operation.
Which Months: All Year Statistical Basis: Instantaneous determination
- 37 [LAC 33:III.501.C.6] Scrubber Liquid Flow rate recordkeeping by electronic or hard copy once every shift during operation.
- 38 [LAC 33:III.501.C.6] Scrubber Liquid Flow rate >= 2 gallons/min.
Which Months: All Year Statistical Basis: Instantaneous determination

EQT 0013 NNA-2 - Fume Scrubber 218A

- 39 [LAC 33:III.501.C.6] Scrubber Liquid Flow rate recordkeeping by electronic or hard copy once every shift during operation.
- 40 [LAC 33:III.501.C.6] Scrubber Liquid Flow rate monitored by measurement once every shift during operation.
Which Months: All Year Statistical Basis: Instantaneous determination
- 41 [LAC 33:III.501.C.6] Scrubber Liquid Flow rate >= 2 gallons/min.
Which Months: All Year Statistical Basis: Instantaneous determination

EQT 0014 NNA-3 - Fume Scrubber 308

SPECIFIC REQUIREMENTS

AI ID: 3732 - PCS Nitrogen Fertilizer LP - Nitrate Group - Geismar Agricultural Nitrogen & Phosphate Plant

Activity Number: PER20080007

Permit Number: 2240-V5

Air - Title V Regular Permit Renewal

EQT 0014 NNA-3 - Fume Scrubber 308

- 42 [LAC 33:III.501.C.6] Scrubber Liquid Flow rate monitored by measurement once every shift during operation.
Which Months: All Year Statistical Basis: Instantaneous determination
- 43 [LAC 33:III.501.C.6] Scrubber Liquid Flow rate recordkeeping by electronic or hard copy once every shift during operation.
- 44 [LAC 33:III.501.C.6] Scrubber Liquid Flow rate ≥ 2 gallons/min.
Which Months: All Year Statistical Basis: Instantaneous determination

EQT 0016 NNA-5 - Utility Boiler 2

- 45 [40 CFR 60.44b] Nitrogen oxides ≤ 0.10 lb/MMBTU heat input (expressed as NO₂), except as provided in 40 CFR 60.44b(k). The nitrogen oxide standards apply at all times, including periods of startup, shutdown, or malfunction. Subpart Db.
Which Months: All Year Statistical Basis: Thirty-day rolling average
- 46 [40 CFR 60.46b(c)] Determine compliance with the NO_x standards in 40 CFR 60.44b through performance testing under 40 CFR 60.46b(e) or (f), or under 40 CFR 60.46b(g) or (h), as applicable. Subpart Db. [40 CFR 60.46b(c)]
- 47 [40 CFR 60.48b(g)(2)] Oxygen recordkeeping by CMS continuously. Subpart Db. [40 CFR 60.48b(g)(2)]
- 48 [40 CFR 60.48b(g)(2)] Implement procedures to operate the boiler within the steam, fuel and oxygen limits established during the initial compliance run as approved by LDEQ on May 28, 2002, to continuously demonstrate compliance with the NO_x limits. Make the procedures, steam flow - oxygen operating charts and supporting stack test data available upon request. Subpart Db. [40 CFR 60.48b(g)(2)]
- 49 [40 CFR 60.48b(g)(2)] Fuel monitored by flow rate monitoring device continuously. Monitor fuel usage with the fuel meter specified in the alternate monitoring plan approved by LDEQ on May 28, 2002. Subpart Db. [40 CFR 60.48b(g)(2)]
Which Months: All Year Statistical Basis: Approved basis
- 50 [40 CFR 60.48b(g)(2)] Steam Flow rate monitored by flow rate monitoring device continuously. Monitor steam production flow with the monitor specified in the alternate monitoring plan approved by LDEQ on May 28, 2002. Subpart Db. [40 CFR 60.48b(g)(2)]
Which Months: All Year Statistical Basis: Hourly average
- 51 [40 CFR 60.48b(g)(2)] Fuel recordkeeping by CMS continuously. Subpart Db. [40 CFR 60.48b(g)(2)]
- 52 [40 CFR 60.48b(g)(2)] Operate oxygen, steam flow and fuel flow continuous monitoring systems and record hourly data during all periods of operation except for continuous monitoring system breakdowns and repairs. Record hourly data during calibration checks, and zero and span adjustments. Subpart Db. [40 CFR 60.48b(g)(2)]
- 53 [40 CFR 60.48b(g)(2)] Steam Flow rate recordkeeping by CMS continuously. Subpart Db. [40 CFR 60.48b(g)(2)]
- 54 [40 CFR 60.48b(g)(2)] Oxygen monitored by CMS continuously. Monitor oxygen concentration with the oxygen monitor specified in the alternate monitoring plan approved by LDEQ on May 28, 2002. Subpart Db. [40 CFR 60.48b(g)(2)]
Which Months: All Year Statistical Basis: One-hour average
- 55 [40 CFR 60.49b(d)] Fuel rate recordkeeping by electronic or hard copy daily. Record the amounts of each fuel combusted during each day and calculate the annual capacity factor individually for coal, distillate oil, residual oil, natural gas, wood, and municipal-type solid waste for the reporting period. Determine the annual capacity factor on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month. Subpart Db. [40 CFR 60.49b(d)]

SPECIFIC REQUIREMENTS

AI ID: 3732 - PCS Nitrogen Fertilizer LP - Gelsmar Agricultural Nitrogen & Phosphate Plant

Activity Number: PER20080007

Permit Number: 2240-V5

Air - Title V Regular Permit Renewal

EQT 0016 NNA-5 - Utility Boiler 2

- 56 [40 CFR 60.49b(g)] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information listed in 40 CFR 60.49b(g)(1) through (g)(10) for each steam generating unit operating day, except as provided under 40 CFR 60.49b(p). Subpart Db. [40 CFR 60.49b(g)]
- 57 [40 CFR 60.49b(i)] Submit reports containing the predicted nitrogen dioxide emission rate information recorded under 40 CFR 60.49b(g). Subpart Db. [40 CFR 60.49b(i)]
- 58 [40 CFR 60.49b(o)] Maintain all records required under 40 CFR 60.49b for a period of 2 years following the date of such record. Subpart Db. [40 CFR 60.49b(o)]
- 59 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
- 60 [LAC 33:III.1313.C] Which Months: All Year Statistical Basis: None specified
Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).
Which Months: All Year Statistical Basis: None specified

EQT 0017 NAN1-1 - Ammonium Nitrate Plant 1

- 61 [40 CFR 64.] Scrubber Liquid Flow rate monitored by flow rate monitoring device once every shift during operation. [40 CFR 64, LAC 33:III.1311, LAC 33:III.1101]
- 62 [40 CFR 64.] Which Months: All Year Statistical Basis: Instantaneous determination
Scrubber Liquid Flow rate recordkeeping by electronic or hard copy once every shift during operation. [40 CFR 64, LAC 33:III.1311, LAC 33:III.1101]
- 63 [LAC 33:III.1311.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
- 64 [LAC 33:III.501.C.6] Which Months: All Year Statistical Basis: Six-minute average
Scrubber Liquid Flow rate >= 80 gallons/min.
Which Months: All Year Statistical Basis: Instantaneous determination

EQT 0018 NAN1-3 - Ammonium Nitrate Plant 1 Condensate Tank

- 65 [LAC 33:III.1305] Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.1-7.

EQT 0019 NAN2-1 - Ammonium Nitrate Plant 2

- 66 [40 CFR 64.] Scrubber Liquid Flow rate monitored by flow rate monitoring device once every shift during operation. [40 CFR 64, LAC 33:III.1311, LAC 33:III.1101]
- 67 [40 CFR 64.] Which Months: All Year Statistical Basis: Instantaneous determination
Scrubber Liquid Flow rate recordkeeping by electronic or hard copy once every shift during operation. [40 CFR 64, LAC 33:III.1311, LAC 33:III.1101]

SPECIFIC REQUIREMENTS

AI ID: 3732 - PCS Nitrogen Fertilizer LP - Gelsmar Agricultural Nitrogen & Phosphate Plant

Activity Number: PER20080007

Permit Number: 2240-V5

Air - Title V Regular Permit Renewal

EQT 0019 NAN2-1 - Ammonium Nitrate Plant 2

68 [LAC 33:III.1305.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: Six-minute average

Scrubber Liquid Flow rate >= 80 gallons/min.

Which Months: All Year Statistical Basis: Instantaneous determination

EQT 0020 NAN2-3 - Ammonium Nitrate Plant 2 Wastewater Evaporator

70 [LAC 33:III.1305] Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.1-7.

EQT 0021 NAN-1 - Ammonium Nitrate Loading

71 [LAC 33:III.1305] Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.1-7.

EQT 0131 NNA-7 - Nitric Acid Railcar Pressure Testing Air Compressor

72 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: None specified

73 [LAC 33:III.1311.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: Six-minute average

EQT 0133 NNA-6 - Nos. 3 and 4 Nitric Acid Storage Tanks Fume Scrubber

74 [LAC 33:III.501.C.6] Scrubber Liquid Flow rate recordkeeping by electronic or hard copy once every shift during operation.

75 [LAC 33:III.501.C.6] Scrubber Liquid Flow rate >= 5 gallons/min.

Which Months: All Year Statistical Basis: Instantaneous determination

Scrubber Liquid Flow rate monitored by measurement once every shift during operation.

Which Months: All Year Statistical Basis: Instantaneous determination

77 [LAC 33:III.5107.A.2] Emits Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

FUG 0003 NNA3-2 - Nitric Acid Train 3 Fugitives

SPECIFIC REQUIREMENTS

AI ID: 3732 - PCS Nitrogen Fertilizer LP - Nitrate Group - Geismar Agricultural Nitrogen & Phosphate Plant
Activity Number: PER20080007
Permit Number: 2240-V5
Air - Title V Regular Permit Renewal

FUG 0005 NNA5-2 - Nitric Acid Train 5 Fugitives

79 [40 CFR 60.72(a)(2)] Opacity <= 10 percent. Subpart G. [40 CFR 60.72(a)(2)]
 Which Months: All Year Statistical Basis: None specified

SCN 0001 NNA3-1a - Nitric Acid Train No. 3 producing 65% strength acid

Group Members: EQT 0004

- 80 [40 CFR 60.72(a)(1)] Nitrogen oxides <= 3 lb/ton (1.5 kg/metric ton) of acid produced, the production being expressed as 100% nitric acid. Subpart G. [40 CFR 60.72(a)(1)]
 Which Months: All Year Statistical Basis: None specified
- 81 [40 CFR 60.72(a)(2)] Opacity <= 10 percent. Subpart G. [40 CFR 60.72(a)(2)]
 Which Months: All Year Statistical Basis: None specified
- 82 [40 CFR 60.73(a)] Nitrogen oxides recordkeeping by CMS continuously. Subpart G. [40 CFR 60.73(a)]
- 83 [40 CFR 60.73(a)] Nitrogen oxides monitored by CMS continuously. Subpart G. [40 CFR 60.73(a)]
 Which Months: All Year Statistical Basis: None specified
- 84 [40 CFR 60.73(b)] Establish a conversion factor for the purpose of converting monitoring data into units of the applicable standard (kg/metric ton, lb/ton). Subpart G. [40 CFR 60.73(b)]
- 85 [40 CFR 60.73(c)] Production rate recordkeeping by electronic or hard copy daily. Record the daily production rate and hours of operation. Subpart G. [40 CFR 60.73(c)]
- 86 [40 CFR 60.74(a)] Use as reference methods and procedures the test methods in 40 CFR 60 Appendix A or other methods and procedures as specified in 40 CFR 60.74, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart G. [40 CFR 60.74(a)]
- 87 [40 CFR 60.74(b)] Determine compliance with the NOx standards in 40 CFR 60.72 using the test methods and procedures specified in 40 CFR 60.74(b)(1) through (b)(4), or (c)(1), as applicable. Subpart G. [40 CFR 60.74(b)]
- 88 [40 CFR 60.74(d)] Use the procedure in 40 CFR 60.73(b) to determine the conversion factor for converting the monitoring data to the units of the standard. Subpart G. [40 CFR 60.74(d)]
- 89 [LAC 33:III.501.C.6] Install, operate, and maintain a selective catalytic reduction device on the emission vent of the No. 3 Nitric Acid Train in order to control emissions of nitrogen oxides while producing nitric acid at an average strength greater than 57%.
- 90 [LAC 33:III.507.G.7] Alternate Operating Scenario: Record in a log, contemporaneous with making a change from one operating scenario to another, the scenario under which the facility, units or sources in this permit are operating. Include in this record the identity of the sources involved, the permit number under which the scenario is included, and the date of change. Keep a copy of the log on site for at least two years.

UNF 0002 Nitrate Group - Nitrate Group

91 [40 CFR 60.] All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A.
 92 [40 CFR 70.5(a)(1)(iii)] Submit Title V permit application for renewal: Due 6 months before permit expiration date. [40 CFR 70.5(a)(1)(iii)]

SPECIFIC REQUIREMENTS

AI ID: 3732 - PCS Nitrogen Fertilizer LP - Nitrate Group - Geismar Agricultural Nitrogen & Phosphate Plant

Activity Number: PER20080007

Permit Number: 2240-V5

Air - Title V Regular Permit Renewal

UNF 0002 Nitrate Group - Nitrate Group

- 93 [40 CFR 70.6(a)(3)(iii)(A)] Submit Title V monitoring results report: Due semiannually, by March 31st and September 30th for the preceding periods encompassing July through December and January through June, respectively. Submit reports to the Office of Environmental Compliance, Surveillance Division. Certify reports by a responsible company official. Clearly identify all instances of deviations from permitted monitoring requirements. For previously reported deviations, in lieu of attaching the individual deviation reports, clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. [40 CFR 70.6(a)(3)(iii)(A)]
- 94 [40 CFR 70.6(a)(3)(iii)(B)] Submit Title V excess emissions report: Due quarterly, by June 30, September 30, December 31, March 31. Submit reports of all permit deviations to the Office of Environmental Compliance, Surveillance Division. Certify all reports by a responsible official in accordance with 40 CFR 70.5(d). The reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by 40 CFR 70.6(a)(3)(iii)(A) as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. Unless required by an applicable reporting requirement, a written report is not required during periods in which there is no deviation. [40 CFR 70.6(a)(3)(iii)(B)]
- 95 [40 CFR 70.6(c)(5)(iv)] Submit Title V compliance certification: Due annually, by the 31st of March. Submit to the Office of Environmental Compliance, Surveillance Division. [40 CFR 70.6(c)(5)(iv)]
- 96 [LAC 33:III.1103] Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited.
- 97 [LAC 33:III.1109.B] Outdoor burning of waste material or other combustible material is prohibited.
- 98 [LAC 33:III.1303.B] Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited.
- 99 [LAC 33:III.2113.A] Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5.
- 100 [LAC 33:III.219] Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance.
- 101 [LAC 33:III.2901.D] Discharges of odorous substances at or beyond property lines which cause a perceived odor intensity of six or greater on the specified eight point buanol scale as determined by Method 41 of LAC 33:III.2901.G are prohibited.
- 102 [LAC 33:III.2901.F] If requested to monitor for odor intensity, take and transport samples in a manner which minimizes alteration of the samples either by contamination or loss of material. Evaluate all samples as soon after collection as possible in accordance with the procedures set forth in LAC 33:III.2901.G.
- 103 [LAC 33:III.507.G.5] Alternate Operating Scenario: Operating plan recordkeeping by logbook upon each occurrence of making a change from one operating scenario to another. Record the operating scenario under which the facility is currently operating. Include in this record the identity of the sources involved, the permit number under which the scenario is included, and the date of change. Keep a copy of the log on site for at least two years. Comply with the requirements of PSD-LA-603. This permit includes provisions of the Prevention of Significant Deterioration (PSD) review from Permit PSD-LA-603.
- 104 [LAC 33:III.509]
- 105 [LAC 33:III.5105.A.1] Do not construct or modify any stationary source subject to any standard set forth in LAC 33:III Chapter 51.Subchapter A without first obtaining written authorization from DEQ in accordance with LAC 33:III Chapter 51.Subchapter A, after the effective date of the standard.

SPECIFIC REQUIREMENTS

AJ ID: 3732 - PCS Nitrogen Fertilizer LP - Nitrate Group - Gelsmar Agricultural Nitrogen & Phosphate Plant

Activity Number: PER20080007

Permit Number: 2240-V5

Air - Title V Regular Permit Renewal

UNF 0002 Nitrate Group - Nitrate Group

- 106 [LAC 33:III.5105.A.2] Do not cause a violation of any ambient air standard listed in LAC 33:III. Table 51.2, unless operating in accordance with LAC 33:III.5109.B.
- 107 [LAC 33:III.5105.A.3] Do not build, erect, install, or use any article, machine, equipment, process, or method, the use of which conceals an emission that would otherwise constitute a violation of an applicable standard.
- 108 [LAC 33:III.5105.A.4] Do not fail to keep records, notify, report or revise reports as required under LAC 33:III. Chapter 51. Subchapter A.
- 109 [LAC 33:III.5107.A.2] Include a certification statement with the annual emission report and revisions to any emission report that attests that the information contained in the emission report is true, accurate, and complete, and that is signed by a responsible official, as defined in LAC 33:III.502. Include the full name of the responsible official, title, signature, date of signature and phone number of the responsible official.
- 110 [LAC 33:III.5107.A] Submit Annual Emissions Report: Due annually, by the 31st of March unless otherwise directed by DEQ, to the Office of Environmental Assessment in a format specified by DEQ. Identify the quantity of emissions in the previous calendar year for any toxic air pollutant listed in Table 51.1 or Table 51.3.
- 111 [LAC 33:III.5107.B.1] Submit notification: Due to the Department of Public Safety 24-hour Louisiana Emergency Hazardous Materials Hotline at (225) 925-6595 immediately, but in no case later than 1 hour, after any discharge of a toxic air pollutant into the atmosphere that results or threatens to result in an emergency condition (a condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water or air environment, or cause severe damage to property).
- 112 [LAC 33:III.5107.B.2] Submit notification: Due to SPOC, except as provided in LAC 33:III.5107.B.6, no later than 24 hours after the beginning of any unauthorized discharge into the atmosphere of a toxic air pollutant as a result of bypassing an emission control device, when the emission control bypass was not the result of an upset, and the quantity of the unauthorized bypass is greater than or equal to the lower of the Minimum Emission Rate (MER) in LAC 33:III.5112, Table 51.1, or a reportable quantity (RQ) in LAC 33:III.3931, or the quantity of the unauthorized bypass is greater than one pound and there is no MER or RQ for the substance in question. Submit notification in the manner provided in LAC 33:III.3923.
- 113 [LAC 33:III.5107.B.3] Submit notification: Due to SPOC, except as provided in LAC 33:III.5107.B.6, immediately, but in no case later than 24 hours after any unauthorized discharge of a toxic air pollutant into the atmosphere that does not cause an emergency condition, the rate or quantity of which is in excess of that allowed by permit, compliance schedule, or variance, or for upset events that exceed the reportable quantity in LAC 33:III.3931.
- 114 [LAC 33:III.5107.B.4] Submit notification in the manner provided in LAC 33:III.3923.
- 115 [LAC 33:III.5107.B.5] Submit written report: Due by certified mail to SPOC within seven calendar days of learning of any such discharge or equipment bypass as referred to in LAC 33:III.5107.B.1 through B.3. Include the information specified in LAC 33:III.5107.B.4.a.i through B.4.a.viii.
- Report all discharges to the atmosphere of a toxic air pollutant from a safety relief device, a line or vessel rupture, a sudden equipment failure, or a bypass of an emission control device, regardless of quantity, IF THEY CAN BE MEASURED AND CAN BE RELIABLY QUANTIFIED USING GOOD ENGINEERING PRACTICES, to DEQ along with the annual emissions report and where otherwise specified. Include the identity of the source, the date and time of the discharge, and the approximate total loss during the discharge.
- 116 [LAC 33:III.5109.C] Develop a standard operating procedure (SOP) within 120 days after achieving or demonstrating compliance with the standards specified in LAC 33:III. Chapter 51. Detail in the SOP all operating procedures or parameters established to ensure that compliance with the applicable standards is maintained and address operating procedures for any monitoring system in place, specifying procedures to ensure compliance with LAC 33:III.5113.C.5. Make a written copy of the SOP available on site or at an alternate approved location for inspection by DEQ. Provide a copy of the SOP within 30 days upon request by DEQ.

SPECIFIC REQUIREMENTS

AI ID: 3732 - PCS Nitrogen Fertilizer LP - Nitrate Group - Geismar Agricultural Nitrogen & Phosphate Plant

Activity Number: PER20080007

Permit Number: 2240-V5

Air - Title V Regular Permit Renewal

UNF 0002 Nitrate Group - Nitrate Group

- 117 [LAC 33:III.5113.A.1] Submit notification in writing: Due to SPOC not more than 60 days nor less than 30 days prior to initial start-up. Submit the anticipated date of the initial start-up.
- 118 [LAC 33:III.5113.A.2] Submit notification in writing: Due to SPOC within 10 working days after the actual date of initial start-up of the source. Submit the actual date of initial start-up of the source.
- 119 [LAC 33:III.535] Comply with the Part 70 General Conditions as set forth in LAC 33:III.535 and the Louisiana General Conditions as set forth in LAC 33:III.537. [LAC 33:III.535, LAC 33:III.537]
- 120 [LAC 33:III.5609.A.1.b] Activate the preplanned abatement strategy listed in LAC 33:III.5611, Table 5 when the administrative authority declares an Air Pollution Alert.
- 121 [LAC 33:III.5609.A.2.b] Activate the preplanned abatement strategy listed in LAC 33:III.5611, Table 6 when the administrative authority declares an Air Pollution Warning.
- 122 [LAC 33:III.5609.A.3.b] Activate the preplanned abatement strategy listed in LAC 33:III.5611, Table 7 when the administrative authority declares an Air Pollution Emergency.
- 123 [LAC 33:III.5609.A] Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency.
- 124 [LAC 33:III.5901.A] Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:III.5611, Tables 5, 6, and 7.
- 125 [LAC 33:III.5907] Comply with the provisions in 40 CFR 68, except as specified in LAC 33:III.5901.
- 126 [LAC 33:III.5911.A] Identify hazards that may result from accidental releases of the substances listed in 40 CFR 68.130, Table 59.0 of LAC 33:III.5907, or Table 59.1 of LAC 33:III.5913 using appropriate hazard assessment techniques, design and maintain a safe facility, and minimize the off-site consequences of accidental releases of such substances that do occur.
- 127 [LAC 33:III.5911.C] Submit registration: Due January 31, 1998, or within 60 days after the source becomes subject to LAC 33:III.Chapter 59, whichever is later. Include the information listed in LAC 33:III.5911.B, and submit to the Office of Environmental Compliance.
- 127 [LAC 33:III.5911.C] Submit amended registration: Due to the Office of Environmental Compliance within 60 days after the information in the submitted registration is no longer accurate.
- 128 [LAC 33:III.919.D] Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D.